



Contrareflector Cushion

by Arya Akhavan (October 2013)

Angles for R.I. = 1.540

69 + 16 girdles = 85 facets

4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.421$ $U/W = 0.421$

$P/W = 0.559$ $C/W = 0.174$

$Vol./W^3 = 0.297$

PAVILION

| | | | |
|----|--------|-------------------------|---------------------|
| P1 | 43.00° | 10-14-34-38-58-62-82-86 | Cut to centerpoint. |
| P2 | 43.48° | 11-13-35-37-59-61-83-85 | Meet at culet. |
| G1 | 90.00° | 02-22-26-46-50-70-74-94 | Set stone size. |
| G2 | 90.00° | 04-20-28-44-52-68-76-92 | Meet P1, G1 |
| P3 | 65.36° | 04-20-28-44-52-68-76-92 | Level girdle. |
| P4 | 66.06° | 02-22-26-46-50-70-74-94 | Level girdle. |

CROWN

| | | | |
|----|--------|-------------------------|-------------------|
| C1 | 47.64° | 02-22-26-46-50-70-74-94 | Set girdle width. |
| C2 | 47.64° | 04-20-28-44-52-68-76-92 | Level girdle. |
| C3 | 25.00° | 10-14-34-38-58-62-82-86 | Meet G2, C2 |
| C4 | 22.42° | 07-17-31-41-55-65-79-89 | Meet C1, C2, C3 |
| C5 | 14.47° | 12-36-60-84 | Meet C3, C4 |
| T | 0.00° | Table | Meet C4, C5 |

I've been trying to write designs where the girdle outline is a square oriented on the 96, but the pavilion is a square oriented on the 12. I finally got one to work - it performs surprisingly well in a range of saturations. Works in materials from quartz to CZ (RI = 1.54 - 2.16) with no changes, but I prefer it in sunset tourmaline.

Suggested size = 7-15 mm

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